



## MASTER COURSE OUTLINE

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Date: August 2013

## COURSE TITLE

Gas Tungsten Arc Welding II

## GENERAL COURSE INFORMATION

Dept.: WLD

Course Num: 282

(Formerly:)

CIP Code: 48.0508

Intent Code: 21

Program Code: 814

Credits: 3

Total Contact Hrs Per Qtr.: 66

Lecture Hrs:

Lab Hrs:66

Other Hrs:

Distribution Designation:

## COURSE DESCRIPTION (as it will appear in the catalog)

This course introduces students to carbon steel pipe welding in the 1G, 2G, 5G, and 6G positions using cup walk methods with 1/8" electrodes on various sizes of pipes.

## PREREQUISITES

WLD 212 or instructor permission

## TEXTBOOK GUIDELINES

Text and materials as decided by welding faculty. (Example: *Modern Welding Technology* by Howard Cary)

## COURSE LEARNING OUTCOMES

*Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills.*

1. The student will have the ability to apply the GTAW process on open root pipe in all positions, and be capable of passing industry standard tests

## INSTITUTIONAL OUTCOMES

## COURSE CONTENT OUTLINE

At the completion of the course, the student will display the skills to perform the following:

1. Carbon steel 8" schedule 40 pipe, 1G. Use ER70S-2 1/8" wire
2. Carbon steel 8" schedule 40 pipe 5G
3. Carbon steel 6" schedule 40 pipe 5G
4. Carbon steel 4" schedule 40 pipe 5G
5. Carbon steel 8" schedule 40 pipe 2G
6. Carbon steel 6" schedule 40 pipe 2G
7. Carbon steel 4" schedule 40 pipe 2G
8. Carbon steel 8" schedule 40 pipe 6G
9. Carbon steel 6" schedule 40 pipe 6G
10. Carbon steel 4" schedule 40 pipe 6G

## DEPARTMENTAL GUIDELINES (optional)

Grades will be calculated as follows:

50% Based on completing all course competencies.

50% Based on Lab Participation, Cleanup on a daily basis, and following ALL Safety rules.

The grade awarded for the class is as follows:

95-100	4.0	86	3.1	77	2.2	68	1.3
94	3.9	85	3.0	76	2.1	67	1.2
93	3.8	84	2.9	75	2.0	66	1.1
92	3.7	83	2.8	74	1.9	65	1.0
91	3.6	82	2.7	73	1.8	60-64	0.7
90	3.5	81	2.6	72	1.7	0-59	0
89	3.4	80	2.5	71	1.6		
88	3.3	79	2.4	70	1.5		
87	3.2	78	2.3	69	1.4		

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**DIVISION CHAIR APPROVAL**

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**DATE**